



FlexScan® EV2456



The EIZO FlexScan EV2456 meets the most demanding requirements of a modern computer workstation. Its image quality and ergonomic features are particularly impressive. With a resolution of 1920 x 1200 pixels, an IPS LCD panel with LED backlighting, and an anti-glare surface, this display excels at detailed, crystal-clear image reproduction. This is fantastic for office work. Auto EcoView ensures a clear, anti-glare view of the screen and adapts the display brightness to the ambient lighting conditions. The ultra-slim monitor is very compact, thanks to its extremely narrow bezel. The monitor is virtually frameless and is particularly impressive when used for multi-screen viewing. Screen InStyle software, included in the delivery, allows you to control the screen from a Windows PC or from the network. You can operate multi-screen solutions in parallel using Screen InStyle.

- ◆ 24.1" LCD monitor with 16:10 aspect ratio and IPS technology for outstanding image quality
- ◆ Bezel only 1 mm on both sides and at the top: extremely compact and elegant design
- ◆ Contrast 1000:1, brightness 350 cd/m², 178° viewing angle
- ◆ Flicker-free image reproduction thanks to hybrid brightness control
- ◆ Auto EcoView, EcoView Index, and EcoView Optimizer
For maximum power savings and superb ergonomics
- ◆ Integrated speakers and headphone jack
- ◆ USB 3.0 hub with one upstream and two downstream ports
- ◆ DisplayPort, HDMI, DVI-D, and D-Sub inputs for digital and analog connection



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Features

Full flat design The EV2456 features an exceptionally narrow bezel measuring around 1 mm on both sides and at the top as well as a panel frame with a width of approximately 5 mm around the display.

This ensures a compact, attractive design. The result is an elegant, eye-catching appearance and more desk space. The user benefits from virtually frameless display in multi-screen operation, as the display areas are very close to one another. Power supply and signal interfaces are unobtrusively integrated into the unit. The EV2456 is available in either a black or white housing color.

Outstanding image quality A resolution of 1920 x 1200 pixels, a contrast ratio of 1000:1, and brightness of 350 cd/m² all ensure first-class image quality with clear graphics and structures as well as sharp text contours. The LCD panel featuring IPS technology enables a viewing angle of 178 degrees, ensuring that color and contrast remain stable for the viewer. This improves perceptibility and readability.

Auto EcoView The EcoView sensor measures the ambient light and automatically adjusts the display brightness accordingly. The image brightness is increased in a bright environment and reduced in a dark one. It is also possible to control the brightness manually. Alternatively, you can freely select the desired image brightness. The EcoView Index indicates how environmentally friendly each setting is.

EcoView Optimizer The EcoView Optimizer analyzes and responds to the white portion of the image content to control the display backlight. When the displayed content is dark, the light emission is reduced so that power consumption decreases by up to 30%. The image brightness defined by the user is nevertheless maintained at all times, as the EcoView Optimizer also controls the hue values.

Flicker-free The EV2456 uses hybrid technology developed by EIZO to control background light. This replaces the conventional pure PWM control (pulse width modulation). However, EIZO does not completely do without PWM; it is still used to retain precise color stability in dark images. The EV2456 uses a flicker-free repetition rate of up to 18 kHz. Furthermore, hybrid technology allows brightness to be reduced to 1 cd/m². This way, the screen maintains an anti-glare display in poorly lit environments.

Overdrive The precalculated Overdrive function accelerates pixel conversion to a level where the changeover time between different hue values is a mere 5 ms on average. Moving images and screen changes are displayed without any annoying delays.

FineContrast This function offers a wide range of display modes with various default settings for brightness, color temperature, and gamma. It provides ideal display configurations for office applications, the Internet, and images (sRGB) at the push of a button. Paper mode simulates the pleasant contrast of printed documents and reduces the blue light portion. In addition, a DICOM mode for radiological images and two user modes are also available for customized settings.

Precise color control Color temperature control allows the white balance to be adjusted at intervals of 500 between 4000 and 10,000 K. In addition, the color saturation (gain) for RGB colors can be configured separately.

Button Guide The EV2456 displays a function overview on the screen at the touch of a button for easy and convenient operation. This way, the function of the respective button is shown next to the control panel.

Digital and analog inputs One DisplayPort input, one HDMI input, and one DVI-D input enable the connection of digital signals. A D-Sub input is available for analog signals. Up to four computers can be connected at one time.

USB Hub An integrated USB 3.0 hub is provided for the connection of peripheral devices. For example, a keyboard and mouse can be connected to the monitor on your desk.

Screen InStyle You can conveniently control the EV2456 either by using the Screen InStyle software on a Windows PC or by using the on-screen menu. The configuration options include color reproduction, energy-saving options, and ergonomic functions that, for example, allow you to reduce the blue light portion (Circadian Dimming). The Screen InStyle software allows the user to apply the settings to all connected screens simultaneously when using a multi-screen system. Screen InStyle enables administrators to adjust the settings of monitors in the entire network from a central location.

Monitor Configurator EIZO Monitor Configurator software allows users to put multiple screens with the same settings into operation. You can use the software to configure the EV2456 and transfer the settings to other monitors.

Audio-enabled The speakers and headphone jack are discreetly integrated into the housing.

Economical and environmentally-friendly The mercury-free backlight with efficient but bright white LEDs is a particularly impressive feature of the EV2456. It requires just 11 watts in regular use, reducing energy costs as well as CO₂ emissions.

FlexStand This enables turning and tilting as well as operation in portrait and landscape mode. Continuous height adjustment starts from very low on the desk and has a range of about 16 centimeters. This guarantees optimal ergonomics, regardless of whether the user is sitting or standing in front of the screen. The FlexStand base is always fully stable, despite its maximum range of movement.



Test marks



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Specifications

Diagonal	61 cm (24.1") 16:10 format
Models (housing color)	EV2456-BK (black) EV2456-WT (white)
Visible image size	518 mm (width) x 324 mm (height)
Visible diagonal	611 mm
Ideal and recommended resolution	1920 pixels x 1200 lines
Dot pitch	0.27 mm x 0.27 mm
Displayable colors	16.7 million
Max. brightness	350 cd/m ² (typical)
Max. dark room contrast	1000:1 (typical)
Max. viewing angle	Horizontal: 178°; vertical: 178°
LCD technology	IPS
Typical reaction time	5 ms gray-gray
Features	Auto EcoView, EcoView Index, EcoView Optimizer, HDCP decoder, FineContrast, on-screen display, PowerManager via DisplayPort and DVI DMPM, Plug & Play via VESA DDC 2b, USB 3.0 hub, integrated speakers and power supply
Configuration options	Minimum and maximum brightness, contrast, gamma, color saturation for RGB, color temperature, clock, phase, image position, resolution, OSD language (de, uk, fr, se, es, it), interpolation
Resolutions	1920 x 1200 full image 1:1, 1600 x 1200, 1680 x 1050, 1280 x 1024, 1024 x 768, 800 x 600, 720 x 400, 640 x 480, enlarged to full image or 1:1
FineContrast (color modes)	Paper, Movie, sRGB, DICOM, User1, User2
Frequencies (digital)	DVI: 31–76 kHz, 59–61 Hz DisplayPort: 31–76 kHz, 59–61 Hz HDMI: 15–76 kHz, 49–61 Hz
Frequencies (analog)	31–81 kHz, 55–76 Hz
Video bandwidth	162 MHz
Graphic signals	DisplayPort, DVI (TMDS), RGB analog
Signal inputs	DisplayPort, HDMI, DVI-D, and D-Sub
Plug & Play	VESA DDC 2b
Power Management	DisplayPort and DVI DMPM
Power consumption	Max.* 44 watts, typically 11 watts, less than 0.5 watts in Off mode, 0 watts when power switch is OFF
Energy efficiency category	A++
Annual energy consumption	19 kWh
Dimensions (W x H x D)	53 cm x (35–51) x 19 cm
Weight	5.7 kg
Test marks	CE, TÜV GS, TÜV certified ergonomics, ISO 9241-307 Class 1, TCO 7.0, Energy Star
Speakers	Left and right
Audio input	3.5 mm stereo jack
Audio output	3.5 mm stereo jack (for headphones)
Flexibility	172° right/left, -5° to the front, 35° to the back, 90° rotatable clockwise and counter-clockwise, approx. 16 cm height adjustment
USB hub	One upstream/two downstream, version 3.0
Accessories included	Cable protection; manual in English, German, and French; Screen InStyle software; ICC color profile; power, USB 3.0, and signal cable (DP-DP)
Service**	Five-year on-site replacement service

Errors excepted 12/16

* At maximum brightness and when all signal inputs and the USB hub are in operation
 ** Zero pixel error guarantee for fully illuminated sub-pixels (partial image elements ISO 9241-307). Valid: six months from the date of purchase.



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